

SPECIAL INSPECTION AGREEMENT



**COMMUNITY DEVELOPMENT DEPARTMENT
BUILDING SAFETY DIVISION
117 NW Lafayette Ave.
Bend, Or 97703**

Project Address: _____ Permit #: _____

Risk Category (1604.5): _____ Seismic Design Category (1613.3.5): _____

PART 1 – STATEMENT OF SPECIAL INSPECTIONS

When special inspection is required to be performed in accordance with Oregon Structural Specialty Code (“OSSC”) chapter 17, a building permit cannot be issued until a statement of special inspections has been submitted by the registered design professional in responsible charge and approved by the Building Safety Division. Pursuant to OSSC section 1704, the statement of special inspections shall identify the materials, systems, components and work requiring special inspection or testing; the type and extent of each special inspection; the type and extent of each test; additional requirements for seismic resistance special inspection or testing; and for each type of special inspection identification as to whether it will be continuous special inspection or periodic special inspection.

Check the items listed below for which special inspection is required to be performed as required by code (please refer to OSSC sections indicated in parentheses) and complete and attach the related Schedule as required for each item checked.

- Shop fabrication of load-bearing members (1704.2.5)
 - Special inspection is not required where the work is done on the premises of an approved fabricator (1704.2.5.2): *attach approved fabricator's certificate of compliance or registration by a nationally recognized accrediting authority as approved fabricator*
- Steel construction (1705.2): **attach Schedule A**
- Concrete construction (1705.3): **attach Schedule B**
- Masonry construction (1705.4): **attach Schedule C1 or C2**
- Wood construction (1705.5): **attach Schedule D**
- Soils (1705.6): **attach Schedule E1**
- Driven deep foundations (1705.7): **attach Schedule E2**
- Cast in place deep foundations (1705.8): **attach Schedule E3**
- Helical pile foundations (1705.9): **attach Schedule E4**
- Sprayed fire-resistant materials (1705.13): **attach Schedule F**
- Mastic and intumescent fire-resistant coatings (1705.14): **attach Schedule G**
- Exterior insulation and finish systems (1705.15): **attach Schedule G**
- Special cases (1705.1.1): **attach Schedule G**
- Smoke control systems (1705.17)

For Risk Categories III or IV check main wind or seismic resistance items listed below.

- Contractor's statement of responsibility for main wind or seismic resistance (1704.4): **attach Schedule H**
- Special inspections for seismic resistance (1705.11): **attach Schedule I**
- Testing and qualification for seismic resistance (1705.12): **attach Schedule J**

For structures assigned to Seismic Design Categories D, E or F, check the item below as applicable.

- Structural observations (1704.5): **attach Schedule K**

Responsible Design Professional's Name (Please Print)

Responsible Design Professional's Signature

Date

PART 2 – ACKNOWLEDGEMENTS

Owner, or responsible design professional acting as Owner's agent, hereby acknowledges that it shall employ the Testing Agency or Testing Agencies and Structural Observer identified below who shall provide the special inspections, testing or structural observations as specified in the above Statement of Special Inspections during construction. Before a request for a final inspection can be granted or a Certificate of Occupancy issued by the Building Safety Division, each Testing Agency or Structural Observer as identified below shall submit a final report to the Building Safety Division documenting required special inspections and correction of any discrepancies noted in the inspections. (1704.2.4)

Owner Name (Please Print)

Owner's Signature

Date

General Contractor Name (Please Print)

Contractor's Signature

Date

Testing Agency "A" Name (Please Print)

Testing Agency A's Signature

Date

Testing Agency "B" Name (Please Print)

Testing Agency B's Signature

Date

Testing Agency "C" Name (Please Print)

Testing Agency C's Signature

Date

Structural Observer's Name (Please Print)

Structural Observer's Signature

Date

Building Safety Division Approval

Date

Project Address: _____ Permit #: _____

Risk Category (1604.5): _____ Seismic Design Category (1613.3.5): _____

SCHEDULE A – STEEL CONSTRUCTION (SEE OSSC TABLE 1705.2 AND SECTION 1705.2 EXCEPTIONS)

- 1. Periodic material verification of high-strength bolts, nuts and washers:
 - Identification markings to conform to ASTM standards specified in the approved construction documents.
 - Manufacturer's certificate of compliance required.
- 2. Inspection of high-strength bolting:
 - Periodic inspection of snug tight joints.
 - Periodic inspection of slip-critical connections, turn-of-the-nut with match-making, direct-tension indicator or twist-off bolt methods.
 - Continuous inspection of slip-critical connections, calibrated wrench or turn-of nut without match-making.
- 3. Periodic material verification of structural steel:
 - Identification of markings to conform to AISC 360 specification in the approved construction documents.
 - For other steel, identification markings to conform to ASTM standards specified in the approved construction documents.
 - Manufacturer's certified test reports.
- 4. Material verification of cold-formed steel deck:
 - Manufacturer's certified test reports.
- 5. Periodic material verification of weld filler materials:
 - Identification of markings to conform to AWS specification in the approved construction documents.
 - Manufacturer's certificate of compliance required.
- 6. Inspection of welding:
 - a.) Structural steel and cold-formed steel deck:
 - Continuous inspection of complete and partial penetration groove welds.
 - Continuous inspection of multi-pass fillet welds.
 - Continuous inspection of single-pass fillet welds > 5/16".
 - Continuous inspection of plug and slot welds.
 - Periodic inspection of single-pass fillet welds ≤ 5/16".
 - Periodic inspection of floor and deck welds.
 - Periodic inspection of welded studs not installed with an automatically timed stud welding machine per AWS D1.1 Section 7.
 - Periodic inspection of welded studs installed with an automatically timed stud welding machine per AWS D1.1 Sections 7 & 7.8.1.
 - b.) Inspection of reinforcing steel welding:
 - Periodic verification of weldability of reinforcing steel other than ASTM A 706.
 - Continuous inspection of reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, boundary elements of special concrete shear walls and shear reinforcement.
 - Continuous inspection of shear reinforcement.
 - Periodic inspection of other reinforcing steel.
- 7. Inspection of steel frame joint details for compliance with approved construction documents:
(Cold-formed steel trusses spanning 60 feet or greater.)
 - Periodic details such as bracing and stiffening.
 - Periodic member locations.
 - Periodic application of joint details at each connection.

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SCHEDULE B – CONCRETE CONSTRUCTION (SEE OSSC TABLE 1705.3 AND SECTION 1705.3 EXCEPTIONS)

- 1. Periodic inspection of reinforcing steel, including prestressing tendons, and placement.
- 2. Inspection of reinforcing steel welding in accordance with Schedule A, Item 6b. (*attach Schedule A*)
- 3. Periodic inspection of anchors installed in concrete where allowable loads have been increased or where strength design is used.
- 4. Periodic inspection of anchors post-installed in hardened concrete members. (See footnote “b” Table 1705.3)
- 5. Periodic verification of required design mix.
- 6. Continuously, at time concrete is sampled to fabricate specimens for strength test, perform slump and air content tests, and determine the temperature of the concrete.
- 7. Continuous inspection of concrete and shotcrete for proper application techniques.
- 8. Periodic inspection for maintenance of specified curing temperature and techniques.
- 9. Inspection of prestressed concrete:
 - Continuous inspection of application of prestressing forces.
 - Continuous inspection of grouting of bonded prestressing tendons in the seismic force-resisting system.
- 10. Periodic inspection of erection of precast concrete members.
- 11. Periodic verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.
- 12. Periodic inspection of formwork for shape, location and dimensions of the concrete member being formed.

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SCHEDULE C1 – MASONRY CONSTRUCTION, LEVEL B (SEE TMS 402/ACI 530/ASCE 5, TMS 602/ACI 530.1/ASCE 6 TABLE 1.19.2, OSSC 1705.4 AND 1705.4 EXCEPTIONS) Required for engineered masonry in Risk Categories I, II or III or empirically designed masonry, glass unit masonry or masonry veneer in Occupancy Category IV.

Minimum tests required: 1.) Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with Specification Article 1.5 B.1.b.3 for self-consolidating grout. 2.) Verification of $f'm$ and $f'aac$ in accordance with Specification Article 1.4 B prior to construction, except where specifically exempted by this Code.

- 1. Periodically verify compliance with the approved submittals.
- 2. Verification as masonry construction begins:
 - Periodic verification of proportions of site-prepared mortar.
 - Periodic inspection of construction of mortar joints.
 - Periodic inspection of placement of reinforcement, connectors, and prestressing tendons and anchorages.
 - Periodic inspection of prestressing technique.
 - Periodic verification of grade and size of prestressing tendons and anchorages.
 - Continuous verification of thin-bed mortar for AAC masonry for the first 5000 square feet of AAC masonry and periodic after the first 5000 square feet of AAC masonry.
- 3. Verification prior to grouting:
 - Periodic inspection of grout space prior to grouting.
 - Periodic verification of grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages.
 - Periodic verification of placement of reinforcement, connectors, and prestressing tendons and anchorages.
 - Periodic verification of proportions of site-prepared grout and prestressing grout for bonded tendons.
 - Periodic verification of construction of mortar joints.
- 4. Inspections during masonry construction:
 - Periodic verification of the size and location of structural elements.
 - Periodic verification of the type, size, and location of anchors, including other details of anchorage to masonry to structural members, frames, or other construction.
 - Continuous inspection of welding of reinforcing bars.
 - Periodic verification of preparation, construction, and protection of masonry during cold weather (<40 deg F) or hot weather (>90 deg F).
 - Continuous inspection of the application and measurement of prestressing force.
 - Continuous inspection of the placement of grout and prestressing grout for bonded tendons is in compliance.
 - Continuous inspection for the placement of the AAC masonry units and construction of thin-bed mortar joints for the first 5000 square feet of AAC masonry and periodic for after the first 5000 square feet.
- 5. Periodic observation of preparation of grout specimens, mortar specimens and/or prisms.

SCHEDULE C2 – MASONRY CONSTRUCTION, LEVEL C (SEE TMS 402/ACI 530/ASCE 5, TMS 602/ACI 530.1/ASCE 6 TABLE 1.19.3, OSSC 1705.4 AND 1705.4 EXCEPTIONS) Required for engineered masonry in Risk Category IV

Minimum tests required: 1.) Verification of $f'm$ and $f'aac$ in accordance with Article 1.4 B prior to construction and for every 5000 sq. ft. during construction. 2.) Verification of proportions of materials in premixed or preblended mortar, prestressing rout, and grout other than self-consolidating grout, as delivered to the project site. 3.) Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with Specification Article 1.5 B.1.b.3 for self-consolidating grout.

- 1. Periodic verification of compliance with the approved submittals
- 2. Verification that the following are in compliance:
 - Periodic verification of proportions of site-mixed mortar, grout and prestressing grout for bonded tendons.
 - Periodic inspection of placement of masonry units and construction of mortar joints.
 - Continuous inspection of placement of reinforcement, connectors and prestressing tendons and anchorages.
 - Continuous inspection of grout space prior to grouting.
 - Continuous inspection of placement of grout and prestressing rout for bonded tendons.
 - Periodic verification of size and location of structural elements
 - Periodic verification of type, size, and location of anchors including other details of anchorage of masonry to structural members, frames, or other construction.
 - Continuous inspection of welding of reinforcing bars.
 - Periodic verification of preparation, construction, and protection of masonry during cold weather (<40 deg F) or hot weather (>90 deg F).
 - Continuous inspection of application and measurement of prestressing force.
 - Continuous verification of placement of AAC masonry units and construction of thin-bed mortar joints.
 - Continuous verification of the properties of thin-bed mortar for AAC masonry.
- 3. Continuous observation of preparation of grout specimens, mortar specimens or prisms.

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SCHEDULE D – WOOD CONSTRUCTION (OSSC 1705.5)

- Shop fabrication of pre-fabricated wood structural elements and assemblies shall be in accordance with OSSC 1704.2.5.
- Periodic inspection of site-built assemblies or shops not approved as an approved fabricator per OSSC 1704.2.5 and 1704.2.5.2.
 - For high-load diaphragms designed in accordance with OSSC 2306.3.2, periodic verification of sheathing panel grade and thickness, nominal size of framing members at adjoining panel edges, fastener diameter and length, the number of fastener lines and spacing between fasteners and at edge margins with approved building plans.
 - Metal-plate-connected wood trusses spanning 60 feet or greater shall provide verification that the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing are installed in accordance with approved truss submittal package.

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SCHEDULE E1 – SOILS (SEE OSSC TABLE 1705.6)

- Periodic verification that materials below shallow foundations are adequate to achieve the design bearing capacity.
- Periodic verification that excavations have extended to proper depth and have reached proper material.
- Periodic classification and testing of compacted fill materials.
- Continuous verification of use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.
- Prior to placement of compacted fill, periodically observe subgrade and verify that the site has been properly prepared.

Notes: _____

SCHEDULE E2 – DRIVEN DEEP FOUNDATIONS (SEE OSSC TABLE 1705.7)

- Continuous verification that element materials, sizes and lengths comply with the requirements of approved construction documents.
- Continuous determination of capacities of test elements and conduct additional load tests, as required.
- Continuous observation of element driving operations and maintain complete and accurate records for each element.
- Continuous verification of placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element.
- For steel elements, perform additional special inspections in accordance with OSSC 1705.2. (*attach Schedule A*).
- For concrete elements and concrete-filled elements perform additional special inspections in accordance with OSSC 1705.3. (*attach Schedule B*).
- For specialty elements, perform additional inspections as determined by the registered designed professional in responsible charge.

Notes: _____

SCHEDULE E3 – CAST-IN-PLACE DEEP FOUNDATIONS ELEMENTS (SEE OSSC TABLE 1705.8)

- Continuous observation of drilling operations and maintain complete and accurate records for each element.
- Continuous verification of placement locations and plumbness; and confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end bearing capacity. Record concrete or grout volumes.
- For concrete elements perform additional special inspections in accordance with OSSC 1705.3 (*attach Schedule B*).
- For masonry piers perform additional special inspections in accordance with OSSC 1705.4 (*attach Schedule C1 or C2*).

Notes: _____

SCHEDULE E4– HELICAL PILE FOUNDATIONS (SEE OSSC TABLE 1705.9)

- Continuous inspection during the installation of helical piles. Record the installation equipment used, pile dimensions, tip elevations, final depth, final installation torqued and other pertinent installation data as required by the registered design professional in responsible charge. An approved geotechnical report and approved construction documents prepared by a registered design professional shall be used to determine compliance.

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SCHEDULE F – SPRAYED FIRE-RESISTANT MATERIALS (SFRM OSSC 1705.13)

- The prepared surface of structural members to be sprayed shall be inspected before the application of the SFRM.
- Verification in accordance with the manufacturer's written instructions of ambient temperature before and after application, substrate conditions, and protection provided.
- Determination of the thickness of SFRM in accordance with ASTM E 605 as required by the approved fire-resistant design.
 - Floor, roof, and wall assemblies shall have sampling for determining the thickness of SFRM shall be determined in accordance with ASTM E 605 making not less than 4 measurements per 1,000 sq ft of the sprayed area of each floor or part thereof in each story.
 - Cellular deck shall have sampling of the SFRM thickness in a 12 inch by 12 inch area. A minimum of 4 measurements shall be made, located symmetrically within the square area.
 - Fluted decks shall have sampling of the SFRM thickness in a selected square area of 12 inches by 12 inches. A minimum of 4 measurements shall be made, located symmetrically within the square area, including one each of the following: valley, crest and sides. The average shall be reported.
 - Structural members shall have sampling for determining the thickness of SFRM shall be in accordance with ASTM E 605 and not less than 25 percent of the structural members on each floor.
 - Beam and girder samplings of SFRM thickness shall be made at 9 locations around the beam or girder at each end of a 12 inch length.
 - Joist and truss sampling shall be made at seven locations around the joist or truss at each end of a 12 inch length.
 - Wide-flanged column sampling of SFRM thickness at 12 locations around the column at each end of a 12 inch length.
 - Hollow structural section and pipe column sampling of SFRM thickness shall be a minimum of 4 locations around the column at each end of a 12 inch length.
- Determination of the density of SFRM in accordance with ASTM E 605 as required by the approved fire-resistant design.
 - Floor, roof, and wall assembly density sampling shall be each floor at the rate of not less than one sample for every 2500 square feet or portion thereof of the sprayed area in each story.
 - Beams, girders, trusses, and columns density sampling shall be at a rate of not less than one sample for each type of structural member for each 2,500 square feet of floor area or portion thereof in each story.
- Determination of the bond strength in accordance with ASTM E 736 of cured SFRM applied to floor, roof, wall assemblies, and structural members shall not be less than 150 psf.
 - Bond strength sampling for floor, roof or wall assemblies for SFRM shall be each floor, roof, and wall assembly at a rate of not less than one sample for every 2,500 square feet of sprayed area, or portion thereof, in each story.
 - Bond strength sampling for SFRM shall be selected from beams, girders, trusses, columns, and other structural framing members at the rate of not less than one sample for type of structural member for each 2,500 square feet of floor area or portion thereof in each story.
 - Bond tests for primer, paint, and encapsulant bond tests shall be conducted when the SFRM is applied to a primed, painted or encapsulated surface for which acceptable bond-strength performance between these coatings and the SFRM has not been determined.

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SCHEDULE G – SPECIAL CASES

Required for construction materials and systems that are alternatives to materials and systems prescribed by OSSC, unusual design applications of materials described in OSSC, or materials and systems required to be installed in accordance with manufacturer's instructions that prescribe requirements not contained in OSSC or referenced standards. For each item checked below, check the required inspection or testing frequency.

- Post-installed anchors in concrete or masonry: Continuous Periodic
- Powder driven shot-in anchors: Continuous Periodic
- Shoring: Continuous Periodic
- Underpinning: Continuous Periodic
- Manufactured concrete block retaining wall systems: Continuous Periodic
- Insulated concrete form systems: Continuous Periodic
- Mastic and intumescent fire-resistant coatings (OSSC 1705.14).
- Fire-resistant penetrations and joints. (OSSC 1705.16, High Rise buildings or buildings assigned a Risk Category III or IV).
- Smoke Control Systems (OSSC 1705.17).
- Other: _____
- Other: _____
- Other: _____

Notes: _____

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SCHEDULE H – CONTRACTOR’S STATEMENT OF RESPONSIBILITY FOR SEISMIC RESISTANCE OSSC 1704.4

- Contractor’s statement of responsibility shall containing the following for Contractor and each Subcontractor responsible for the construction of the main wind or seismic-force-resisting system, designated seismic systems or a wind or seismic-resisting component listed in the statement of special inspections. The contractor and subcontractors shall submit a **written statement of responsibility** to the Building Official and the owner prior to the commencement of work on the system or component. The contractor’s statement of responsibility shall contain acknowledgement of the awareness of the special requirements contained in the statement of special inspection. Including: special inspections, testing or structural observations for seismic resistance are required as specified by the registered design professional on this Statement of Special Inspection and attached Schedule I, Schedule J or Schedule K:
- Acknowledgement of awareness of the special inspection requirements contained in the Statement of Special Inspections and the attached Schedules.
 - Acknowledgement that control will be exercised to obtain conformance with the construction documents approved by the Building Safety Division.
 - Procedures for exercising control within Contractor’s organization, the method and frequency of reporting and the distribution of the reports.
 - Identification and qualifications of the person(s) exercising such control and their position(s) in the organization.

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SCHEDULE I –SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (SEE OSSC SECTION 1705.11) Structures in Risk Category III and IV unless specifically exempt by the exceptions of 1704.2.

- Seismic-force-resisting systems in structures assigned to Seismic Design Categories C, D, E or F:
 - Inspections for structural steel in accordance with the quality assurance requirements of AISC 341 CH. J section J5 (Inspection Tasks), OSSC 1705.2 and Table 1705 (attach **Schedule A**). 1705.11.1
 - Continuous inspection for structural wood required during field gluing operations of element of the seismic force-resisting system. 1705.11.2
 - Periodic inspection of structural wood required for nailing, bolting, anchoring and other fastening of components with the seismic force-resisting system with fastener spacing 4 inches on center or less, including wood shear walls, wood diaphragms, drag struts, braces, shear panels and hold-downs. 1705.11.2
 - Periodic inspection is required for cold-formed steel light-frame construction during welding operations of elements of the seismic force-resisting system. 1705.11.3
 - Periodic inspection is require for cold-formed steel light-framed construction for screw attachment, bolting, anchoring, and other fastening of components within the seismic for-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs. (Only required if sheathing is not gypsum board or fiberboard and is wood or steel sheets with fastener spacing that is less than 4 inches on center. 1705.11.3
- Designated seismic systems requiring seismic qualifications per OSSC 1705.12.3. Construction documents shall specify the requirements for certification by analysis, testing or experience data for nonstructural components and designated seismic systems per ASCE 7 section 13.2, where such certification is required by OSSC 1705.12 in structures assigned to Seismic Design Categories C, D, E or F:
 - Periodic verification of labeling, anchorage or mounting systems conform to the certificate of compliance (*for anchors attach **Schedule G***).
- Architectural components in structures more than 30 ft in height and assigned to Seismic Design Categories D, E or F (1705.11.5):
 - Periodic inspection during erection and fastening of exterior cladding, interior and exterior nonbearing walls weighing more than 15 psf or veneer weighing more than 5 psf (*for anchors attach **Schedule G***).
 - Periodic inspection during the anchorage of access floors (*for anchors attach **Schedule G***).
 - Periodic inspection of the installation and anchorage of suspended ceiling systems (*for anchors attach **Schedule G***).
- Mechanical and electrical components in structures assigned to Seismic Design Categories C, D, E or F (1705.11.6):
 - Periodic inspection during anchorage of electrical equipment for emergency or standby power systems (*for anchors attach **Schedule G***).
 - Periodic inspection is required during the anchorage of other electrical equipment in structures assigned to Seismic Design Category **E** or **F** (*for anchors attach **Schedule G***).
 - Periodic inspection during the installation and the anchorage of piping systems carrying hazardous materials and their associated mechanical units (*for anchors attach **Schedule G***).
 - Periodic inspection during the installation and the anchorage of HVAC ductwork that will contain hazardous materials (*for anchors attach **Schedule G***).
 - Periodic inspection during the installation and anchorage of vibration isolation systems where the construction documents require a nominal clearance of 0.25" or less between the equipment support frame and restraint (*for anchors attach **Schedule G***).
- Storage racks in structures assigned to Seismic Design Category D, E, or F (1705.11.7):
 - Periodic inspection for storage rack anchorage 8 ft or greater in height (*for anchors attach **Schedule G***).
- Periodic inspection during fabrication and installation of seismic isolator units and energy dissipation devices that are part of the seismic isolation system.

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SCHEDULE J – TESTING AND QUALIFICATION FOR SEISMIC RESISTANCE

- Testing and qualification specified in OSSC 1705.12.1 through 1705.12.4, unless exempt from special inspections by the exceptions of 1704.2 for seismic-force-resisting systems in structures assigned to Seismic Design Categories C, D, E or F:
 - Verification of certified mill test reports for each shipment of reinforcing steel complying with ASTM A 615 used to resist earthquake induced flexural and axial forces in special moment frames, special structural walls and coupling beams connecting special structural walls, in structures assigned to *Seismic Design Category B, C, D, E, or F*, the reinforcement shall comply with ACI 318 section 21.1.5.2.
 - Chemical tests in accordance with ACI 318 section 3.5.2 to determine weldability of ASTM A 615 reinforcing steel.
 - Testing for structural steel as required by AISC 341 quality assurance OSSC 1705.1.2. See exception in OSSC 1705.12.2 for structures in *Seismic Design Category C*.
 - Ultrasonic testing for discontinuities behind and adjacent to welds after joint completion where subject to through-thickness weld shrinkage strains in base metal thicker than 1.5". Acceptance criteria for nondestructive testing shall be as required in ASTM A 435 or ASTM A 898 (Level 1 criteria) as specified by the registered design professional on the construction documents.
- Designated seismic system in structures assigned to *Seismic Design Category C, D, E, or F* and subject to the certification requirements of ASCE 7 section 13.2.2 and comply with OSSC 1705.12.3.
 - Active mechanical and electrical equipment that must remain operable following the design earthquake ground motion shall be certified exclusively on the basis of approved shake table testing in accordance with ASCE 7 section 13.2.5 or data in accordance with ASCE 7 section 13.2.6.
 - Components with hazardous substances and assigned an importance factor >1.5 in accordance with ASCE 7 section 13.1.3 shall be certified by the manufacturer as maintaining containment following the design earthquake ground motion by analysis, approved shake table testing in accordance with ASCE 7 section 13.2.5, or data in accordance with ASCE 7 section 13.2.6.
- Architectural, mechanical and electrical components in structures assigned *Seismic Design Categories C, D, E or F and where the requirements of ASCE 7 section 13.2.1 item 2* are met by submittal of manufacture's certification and comply with OSSC 1705.12.3:
 - Manufacturer's certification that the component is seismically qualified by one or more of the following and as specified by the registered design professional on the construction documents:
 - Analysis.
 - Testing in accordance with the alternative set forth in ASCE 7 section 13.2.5.
 - Analytical method using dynamic characteristics and forces.
 - Experience data in accordance with the alternative set forth in ASCE 7 section 13.2.6.
- Testing of seismic isolation system components in accordance with OSSC 1705.12.4 and ASCE 7 section 17.8.

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SCHEDULE K – STRUCTURAL OBSERVATIONS OSSC 1704.5

Prior to the commencement of observations, the structural observer shall submit to the Building Official a **written statement** identifying the frequency and extent of structural observations. At the conclusion of the work included in the permit, the structural observer shall submit to the Building Official a **written statement** that the site visits have been made and identify any reported deficiencies which, to the best of the structural observer's knowledge, have not been resolved.

Structural observations for Seismic resistance: Structural observation shall be provided for structures assigned to *Seismic Design Category D, E, or F* where one or more of the following conditions exist. OSSC 1704.5.1

- Structural observations for structures classified as Risk Categories III or IV per OSSC TABLE 1604.5.
- Structural observations for structures with height greater than 75 ft above the base.
- The structure is assigned to *Seismic Design Category E*, is classified as Risk Category I or II in accordance with OSSC Table 1604.5, and is greater than 2 stories above grade plane.
- Structural observations for structures when so designated by the registered design professional in responsible charge of the design.
- Structural observations for structures when specifically required by the Building Official.

Structural observations for Wind requirements: Structural observation shall be provided for structures sited where V_{asd} as determined in accordance OSSC 1609.3.1 exceeds 110 mph, where one or more of the following conditions exist. OSSC 1704.5.2

- Structural observations for structures classified as Risk Categories III or IV per OSSC TABLE 1604.5.
- Structural observations for structures with height greater than 75 ft above the base.
- Structural observations for structures when so designated by the registered design professional in responsible charge of the design.
- Structural observations for structures when specifically required by the Building Official.

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